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Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2013-14

Date: 03.02.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/167/2013-14 Dated: 12.12.2013
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

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ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2013-14 : 03.02.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/167/2013-14 Dated: 12.12.2013

Date of Testing : 03.02.2014

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	180	18.00	23.00	77.0	75-100
1.18	165	16.50	39.50	60.5	55-90
600 Micron	210	21.00	60.50	39.5	35-59
300 Micron	189	18.90	79.40	20.6	8-30
150 Micron	159	15.90	95.30	4.7	0-10

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Job No.: CTCE/BBMP/W.No.12/KRIDL/AGG/2013-14 : 03.02.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of Work : Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/167/2013-14 Dated: 12.12.2013

Date of Testing : 03.02.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	350	3.50	3.50	96.50	95-100
20	5280	52.80	56.30	43.70	30-70
10	3000	30.00	86.30	13.70	10-35
4.75	1200	12.00	98.30	1.70	0-5

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Job No.: CTCE/BBMP/W.No.12/KRIDL /STEEL/2013-14 06.02.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	EE/DD/WO/167/2013-14 Dated: 12.12.2013
Date of Test	:	06.02.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/KRIDL /STEEL/2013-14 06.02.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	EE/DD/WO/167/2013-14 Dated: 12.12.2013
Date of Test	:	06.02.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

10.03.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/167/2013-14 Dated: 12.12.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2014	10.03.2014	8.175	475.5	21.13
2	10.02.2014	10.03.2014	8.235	492.6	21.89
3	10.02.2014	10.03.2014	8.325	514.3	22.86

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Name of the work	: Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/167/2013-14 Dated: 12.12.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.02.2014	13.03.2014	8.189	480.6	21.36
2	13.02.2014	13.03.2014	8.210	498.3	22.15
3	13.02.2014	13.03.2014	8.398	518.9	23.06

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17.03.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of the work : Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/167/2013-14 Dated: 12.12.2013

Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.02.2014	17.03.2014	8.110	476.2	21.16
2	17.02.2014	17.03.2014	8.285	489.5	21.76
3	17.02.2014	17.03.2014	8.324	495.2	22.01

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

20.03.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/167/2013-14 Dated: 12.12.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2014	20.03.2014	8.129	480.3	21.35
2	20.02.2014	20.03.2014	8.275	498.6	22.16
3	20.02.2014	20.03.2014	8.389	526.7	23.41

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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2013-14

24.03.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager (West),** KRIDL, Bangalore.
Name of the work	: Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/167/2013-14 Dated: 12.12.2013
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.02.2014	24.03.2014	8.216	482.5	21.44
2	24.02.2014	24.03.2014	8.382	502.3	22.32
3	24.02.2014	24.03.2014	8.419	518.3	23.04

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Job No.: CTCE/BBMP/W.No.12/KRIDL/Pre Cast Slab/2013-14

10.03.2014

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

Name of Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of work	:	Improvements to Roads at Chikkasandra near Sapthagiri college area in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
Reference	:	EE/DD/WO/167/2013-14 Dated: 12.12.2013
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre cast slab
Date of Testing	:	10.03.2014

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.404	2509.21	1.64	0.960	32.05	16.32	17.63	16.92	21.15
2	50.00	83.00	0.410	2515.80	1.66	0.965	33.00	16.81	18.15	17.52	21.90
3	50.00	84.00	0.419	2540.42	1.68	0.970	33.50	17.06	18.43	17.87	22.34

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.